



9-1 Translate Figures and Use Vectors

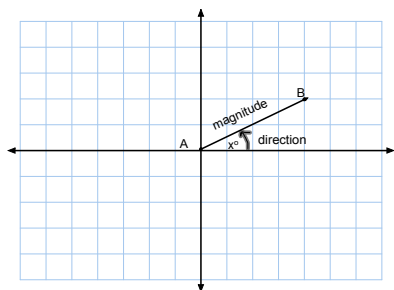
Vector--quantity that has both magnitude, or length, and direction

 \overrightarrow{AB}

A initial point
B terminal point

We can use vectors to describe translations.

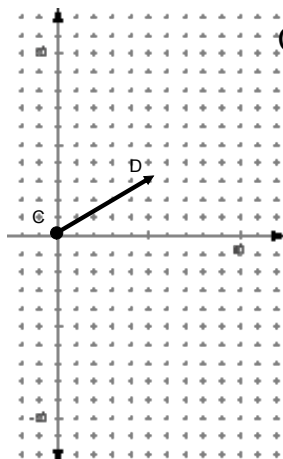
<https://mrshayden.wikispaces.com>



Standard position--initial point at origin

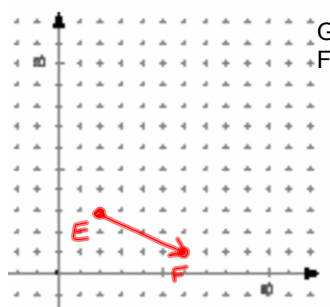
C(0, 0) D(5, 3)

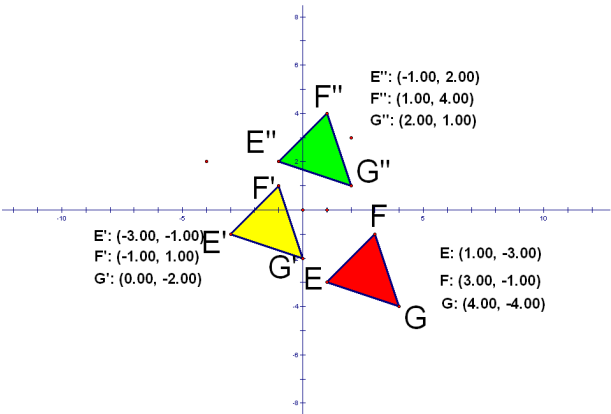
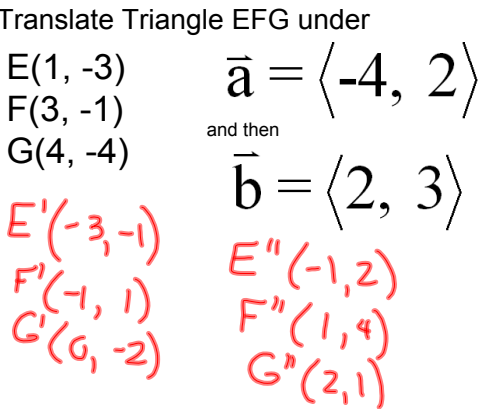
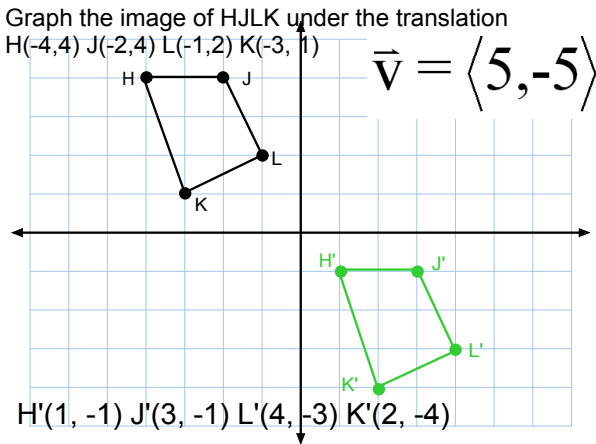
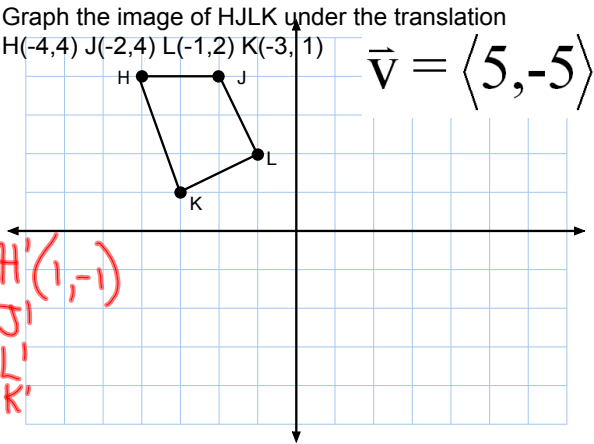
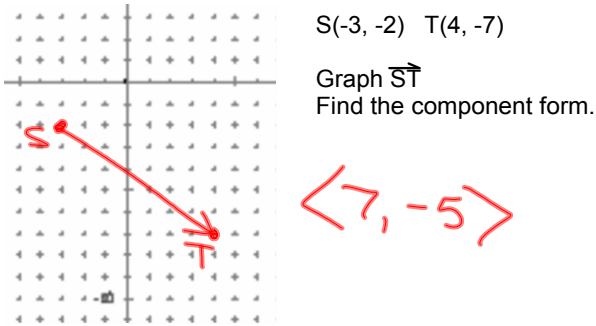
Component form

 $\langle 5, 3 \rangle$
 $\langle x_2 - x_1, y_2 - y_1 \rangle$


E(2, 3) F(6, 1)

Graph \overrightarrow{EF}
Find the component form.


 $\langle 4, -2 \rangle$



HW p 576-577 #s 3-6, 15-19